

CLAIMS LISTING:

1. (Currently Amended) A system for providing a supply of compressed gas, said system comprising: a pressure tank; a compressor, controllable via a first control member, arranged to supply the pressure tank with compressed gas; said first control member being arranged to adopt having an active state when said wherein the compressor is controlled to operate and deliver compressed gas to the pressure tank, said first control member further having and a passive state when wherein the compressor is controlled not to operate; and a second control member signally connected to a pressure sensor arranged in the pressure tank and said second control member adapted using said pressure sensor to establish whether the compressor is operating by analysis of recorded pressure and pressure changes in the pressure tank.
2. (Original) The system as recited in claim 1, wherein said second control member is configured to establish that the compressor is operating when the pressure sensor records a pressure below a first limit value.
3. (Original) The system as recited in claim 1, wherein said second control member is configured to establish that the compressor is not operating when the pressure sensor records a pressure above a second limit value.

4. (Original) The system as recited in claim 3, wherein said second control member is configured to establish that the compressor is operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is rising, said second control member being further configured to establish that the compressor is not operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is dropping or is constant.

5. (Original) A method for verifying whether a compressor is operating in a system for supply of compressed gas, the system comprising a pressure tank, a compressor controllable via first control member and which is arranged to supply the pressure tank with compressed gas, the first control member is arranged to adopt an active state when the compressor is controlled to operate and whereby compressed gas is delivered to the pressure tank and a passive state when the compressor is controlled not to operate, a second control member is connected in, signaling terms, to a pressure sensor that records pressure, and changes in pressure, in the pressure tank; the method comprising: utilizing the second control member, establishing that the compressor is operating when the pressure sensor records a pressure below a first limit value; utilizing the second control member, establishing that the compressor is not operating when the pressure sensor records a pressure above a second limit value; utilizing the second control member, establishing that the compressor is operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is rising, and utilizing the second control member, establishing that the compressor is not operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is dropping or is constant.